Mastering Ansible

Jenkins Pipeline



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Exercise Steps

Scenario:

In this activity, we will cover how to run a playbook by integrating Ansible with Jenkins.

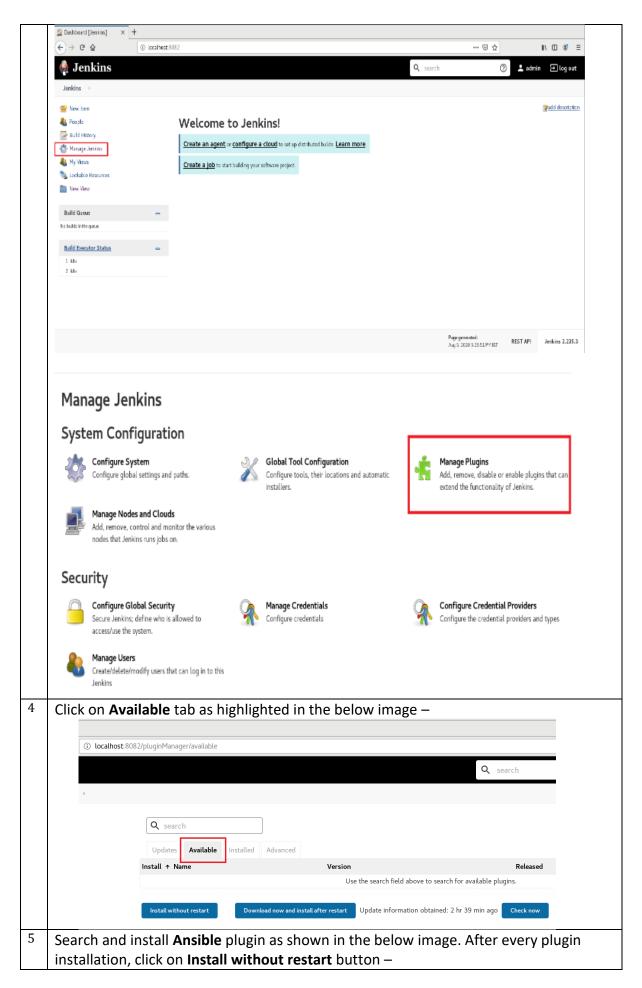
Prerequisite:

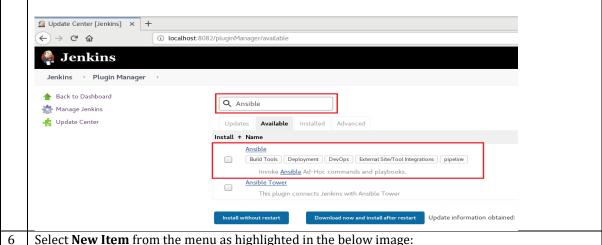
a. The source code is available in Gitlab. You can download it by using the URL : GitHub - vishnukiranreddy4/ansiblerepo

Walkthrough:

- 1. Install Ansible Plugin
- 2. Create a Pipeline Job in Jenkins
- 3. Configure the Job with Jenkinsfile and execute build

```
Activity 1
Login to GitHub and fork the below project.
    https://github.com/vishnukiranreddy4/ansiblerepo.git
Note: Once you fork the project update your repository URL in Jenkinsfile.txt of master
branch.
   15 lines (15 sloc) | 339 Bytes
     1 pipeline {
     2
          agent any
     3
            stages {
               stage('Get_Playbook') {
                    steps {
                        git 'https://github.com/vishnukiranreddy4/ansiblerepo.git'
                     }
               }
                stage('Run_Playbook') {
                   steps {
    10
    11
                        sh 'ansible-playbook playbook.yml'
    12
                     }
    13
                }
    14
Access Jenkins Dashboard using the URL <a href="http://localhost:8080">http://localhost:8080</a>
Username: admin
Password: admin
Go to Manage Jenkins → Manage Plugins
```

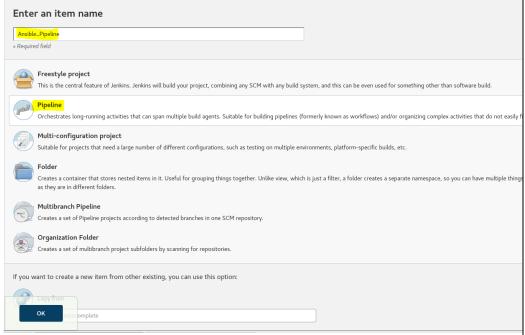




Select **New Item** from the menu as highlighted in the below image:

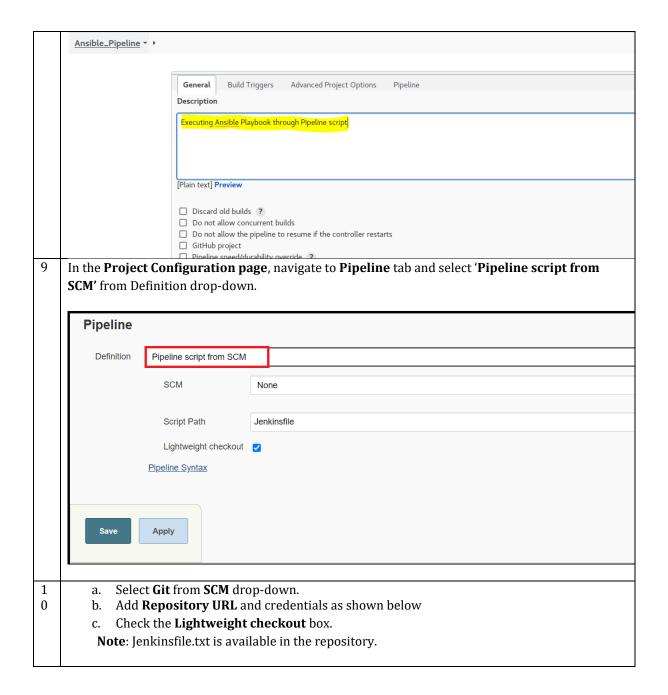


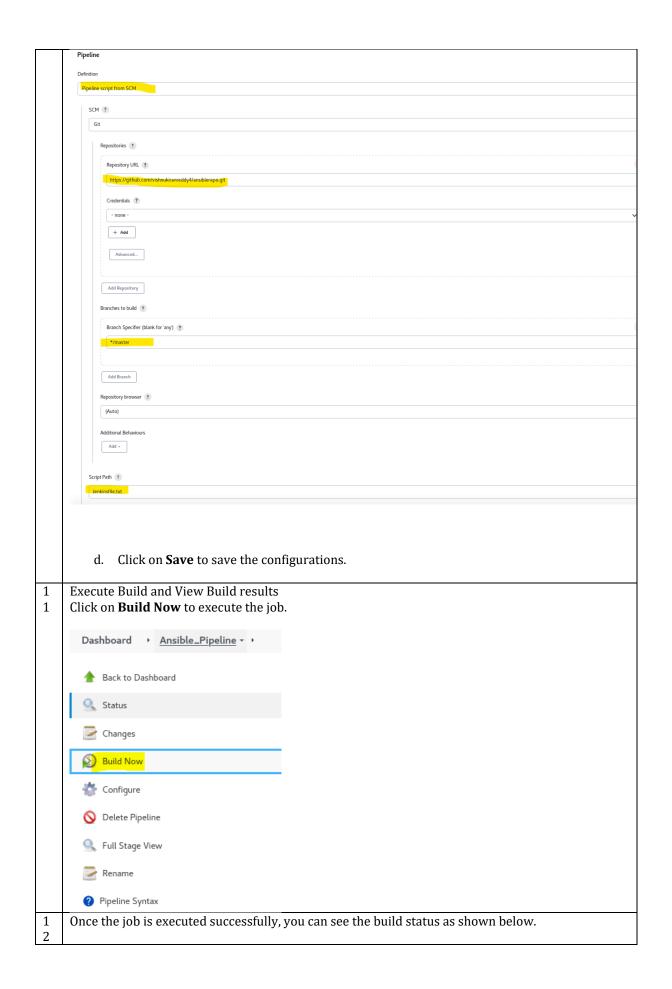
- 7 Type the job name as 'Ansible_Pipeline' in the Enter an item name field and select Pipeline **Project** as the project type as shown below:
 - Click **OK** to create job.

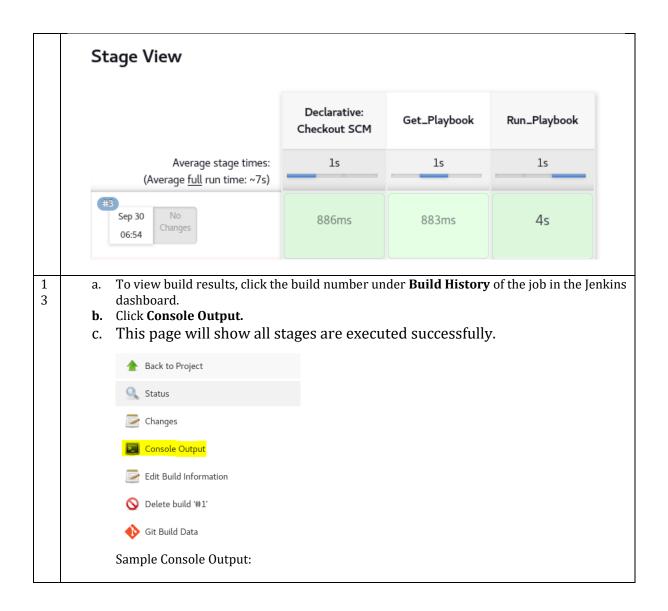


This action leads to the **Project Configuration** page, where you can configure settings for build activity.

- To configure job with GitHub project, perform the following tasks:
 - In the Project Configuration page, under the General tab, type the details in the **Description** field







```
+ ansible-playbook playbook.yml
ok: [172.32.6.144]
ok: [172.32.6.144] => {
  "ansible_hostname": "ip-172-32-6-144"
}
ok: [172.32.6.144] => {
  "msg": [
    "Date: 2022-09-30",
   "Timezone: UTC",
 ]
}
ok: [172.32.6.144] => {
 "msg": [
    "All Interface List: [u'eth0', u'lo', u'docker0', u'virbr0-nic', u'virbr0'
    "All IP: [u'172.17.0.1', u'172.32.6.144', u'192.168.122.1']",
    "Gateway: 172.32.0.1",
    "Eth0 MAC: 02:ae:7c:b0:8f:30",
 ]
}
```

*** End of Activity Jenkins Pipeline ***

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